

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method comprising:

selecting a dicing tape with an adhesive layer that has a thickness greater than a height of one or more bump electrodes formed on a first side of a wafer; and

applying the dicing tape to the first side of the wafer such that the adhesive layer conforms to the one or more bump electrodes; and

dicing the wafer from a second side of the wafer opposite the first side, the dicing extending into the adhesive layer a distance less than a thickness of the adhesive layer.

2. (Currently Amended) The method of claim 1 wherein the wafer is a double bumped wafer with bump electrodes formed on the second side.

3. (Original) The method of claim 2 wherein the dicing tape is applied using a mounting pressure roller wherein the adhesive layer helps to distribute a pressure applied by the mounting pressure roller.

4. (Currently Amended) The method of claim 3 wherein the dicing tape is a further comprising:

after dicing, reducing in adhesive strength of the adhesive layer by exposing the adhesive layer to radiation-sensitive tape.

5. (Original) The method of claim 4 wherein the bump electrodes have a height of approximately 60 microns and the adhesive layer has a thickness of approximately 130 microns.

6. (Currently Amended) The method of claim 5 further comprising, wherein dicing comprises:

mounting the wafer on a support member; and

dicing the wafer using a dual-blade dicing process wherein a first blade dices through less than an entire thickness of the wafer followed by a second blade that dices through the wafer.

7. (Canceled)

8. (Original) The method of claim 7 wherein the adhesive strength is reduced from a pre-radiation adhesive strength of approximately 200 grams/25 mm² to a post-radiation adhesive strength of approximately 2 grams/25 mm².

9-13 (Canceled)

14. (Currently Amended) A method comprising:
determining a height of one or more bump electrodes on a first side of a wafer surface;
and

selecting a dicing tape based upon the determined height of the one or more bump electrodes, a first side of the dicing tape comprising an adhesive layer thicker than the determined height of the one or more bump electrodes;

applying the first side of the dicing tape to the first side of the wafer such that the adhesive layer conforms to the one or more bump electrodes; and

dicing the wafer from a second side of the wafer opposite the first side, the dicing extending into the adhesive layer a distance less than a thickness of the adhesive layer.

15. (Original) The method of claim 14 wherein the wafer is a double bumped wafer.

16-17. (Canceled)

18. (Currently Amended) The method of claim 17-14 wherein the dicing tape is applied using a mounting pressure roller wherein the adhesive layer helps to distribute a pressure applied by the mounting pressure roller.

19. (Original) The method of claim 14 wherein the dicing tape is a radiation sensitive tape having a pre-radiation adhesive strength of approximately 200 grams/25 mm², and a post-radiation adhesive strength of approximately 2 grams/25 mm².

20. (Original) The method of claim 14 wherein the bump electrodes have a height of approximately 60 microns and the adhesive layer has a thickness of approximately 130 microns.
21. (Currently Amended) The method of claim 20 further comprising:
~~mounting the wafer on a support member; and~~
dicing the wafer using a dual-blade dicing process.
22. (Currently Amended) The method of claim 21 further comprising:
~~wherein reducing an adhesive strength comprises irradiating a backside-second side of the dicing tape to reduce an adhesive strength of the adhesive layer.~~
23. (Currently Amended) A method comprising:
applying an adhesive to a wafer surface, the wafer surface having one or more bump electrodes formed thereon, the adhesive covering the one or more bump electrodes to form an adhesive layer; and
following applying the adhesive layer, applying a backing film to the adhesive layer.
24. (Original) The method of claim 23 wherein the wafer is a double bumped wafer.
25. (Original) The method of claim 23 wherein the backing film is applied using a mounting pressure roller wherein the adhesive layer helps to distribute a pressure applied by the mounting pressure roller.
26. (Original) The method of claim 25 wherein the bump electrodes have a height of approximately 60 microns and the adhesive layer has a thickness of approximately 130 microns.
27. (Original) The method of claim 23 further comprising:
mounting the wafer on a support member; and
dicing the wafer using a dual-blade dicing process.